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Armour Institute of Technology, Chicago, Illinois

Tuesday, March 10, 1931

ANNUAL FRESHMAN SMOKER SET FOR NEXT FRIDAY EVE

Schommer and Amsbary Featured on Program

AT W. S. E. HALL

Plans for the freshman smoker which have for several weeks been going through a period of development are soon to attain realization. This event is to take place next Friday night at 8:00 at the W. S. E. hall, located on the twelfth floor of the Engineering Building at 205 West Wacker Drive.

Since this is their first social event of the year, the frosh are striving hard to make it a big success. In order to achieve this and make the evening a highly successful and enjoyable one various forms of entertainment have been provided.

bury, well known members of the sor Jacobson who represented the of an inch wide. faculty, have assured social chair- faculty. The fact that no questions man L. A. Callen of their presence were asked on theoretical subjects as speakers on Friday night.

Orchestra to Play

formed among freshman students, larger number of men than usual. is to play on the occasion, offering Except in the case of the Aeronau- falls on the photo-electric cell, popular song hits of the day. Its tics examination, all of the quesmembers are: T. Cherwin, J. tions asked seemed comparatively into electric impulses. These audio Cramer, B. Peterson, C. Cunning-leasy. ham, J. Tamney, N. Krause, N. Colburn, C. Wilson, C. Johnson, D. Traver, R. Ekroth, J. Rodigher, T. Varied Program At Reavy, B. Hemmick, and W. Gunderson.

Tickets On Sale

Chairman Callen urges every freshman who possibly can to attend this event. Tickets are now on sale for a quarter, which will be amply repaid in the way of real enjoyment. Refreshments will also be served.

Will Make Attempt To Split Atom Soon

Artificial lightning of 15,000,000 volts will be unleashed in the center of Berlin in March.

The artificial bolt will be used in an attempt to split the atom. It is believed to be one of the most dangerous experiments ever undertaken by man. The voltage has been heretofore unequaled.

One grain of water or any other matter contains energy which the experiments have calculated to be worth \$125,000.

Dr. Brasch, a member of the Institute of Berlin, said radium rays will be produced at greater strength. This is a disturbing feature for Gamma rays, with the old apparatus, will kill a man at a distance of 200 meters.

Zielinske To Address Engineers Society

Mr. W. F. Zielinske, in his talk to be delivered this Friday, March 13, to the members of the Armour branch of the Fire Protection Engineering Society, will speak about spectacular oil fires. In addition, he will also discuss the properties of oil, the distillation process and the precautions against hazards.

As a speaker, Mr. W. F. Zielinske is considered by the society to be Professor Perry's and Roesch's class from one end to the other and here one of the best. He is an engineer in airplane engines. The reason the brick undergoes most of the for the Marsh & McLennan Insurance Co., formerly was in the of passing the Navy's physical ex-which are its character when it Marines and has taught school in amination. A number of men are leaves the oven. However, that is Cuba.

SALAMANDER PLEDGES

Salamander, honorary Fire Protection Engineering pledged two juniors.

E. A. Scanlan, '32.

G. W. Schodde, '32. Hall Rooms,

Seniors Try For Government Jobs

Over thirty seniors and one member of the faculty took the Civil Service examinations given by the Federal government on Wednesday and Thursday, February 25th and 26th in the Federal Building

downtown. The examinations were conducted in three sections. The first section was from 9:30 to 1:00 covering optional questions. These questions covered general engineering topics. The second section of the examinations was devoted to optional questions on structural engineering. Twelve civils and one mechanical tried their hands at this examination. Thursday morning from 9:30 to 1:00 was devoted trical impulses are sent through to the examination on Aeronautics which was taken by Professor Ja-

taking these examinations. Of the and sound are taken on separate tricals, three chemicals, and two to one film, the sound being on Professors Schommer and Ams- mechanicals in addition to Profes- one side, on a strip about a tenth such as Physics, Calculus, and so forth, was a good indication that of the sound was discussed. the government was making the light, focused to a fine line, is in-A fifteen piece orchestra recently examination easy so as to hire a

A. I. Ch. E. Meeting

A meeting of the Armour Branch of the A. I. Ch. E. was held in the theater. The speakers are elevated Company of Indiana at Whiting, Physics Lecture Room last Friday to two-thirds of the height of the Indiana. The plant at Whiting covmorning. F. B. Atwood, the president, opened the meeting with an apology for the absence of the speaker, who had been unavoidably detained.

the breach by telling of a meeting of the American Safety Council that he attended last Thursday.

Accidents Liable

The laboratories of industrial plants, according to Professor Mc-Cormack, are much more rigid in respect to the wearing of goggles, smelting furnaces and hearths. rubber aprons, and leggings, than the college laboratories. But the industrial laboratories are doing work that is less certain than the schools and is therefore inherently more liable to cause an accident.

After a few experiences had been related, the speaker, Dr. Farringer, arrived quite breathless. Of course the lateness of the hour prevented the deliverance of the well planned speech that he had prepared, but in spite of all difficulties the speaker delivered an interesting informal talk on oils. At the close of the hour the seniors asked some questions which were cut short by the bell.

Eight Men in Class On Airplane Engines

seems to be the extreme difficulty physical and chemical changes now taking this test at the Great getting ahead of the story since Lakes station.

The course includes work on Lib- quent sudden cooling would destroy erty. Gnome, Wright-Whirlwind, the brick and in order to prevent fraternity packard and other airplane en-this, the bricks pass through the rines. The hesitation of the men last, or cooling kiln in which they 'o enroll in this class is not due to drop to practically ambient tem- 3:00 P.M.—Swimming — Illinois the quality of the course, but be- perature. at the noon meeting held on Fri- rause of the serious obstacle preday, February 27, in their Chapin sented by the rigid requirements of courtesy of the Harbison Walker the government.

TALKIES LECTURE DRAWS CROWD TO A. I. E. E. MEETING

Mr. H. Merril Smith of Electrical Research Products, Inc., the Sound Projection division of the Western Electric Company, gave an address on "Talking Motion Pictures" last Friday at the regular meeting of the A. I. E. E.

Mr. Smith first gave a detailed discussion of the method of recording the sound on the film. He traced the operations from the stu-|dio, through the "mixing panel" to the main amplifier, and through the bridge amplifiers and light valve to the film.

Explains Recording Methods

The method in which the electhe light valve and recorded on the There were over a hundred men ity, was explained. The pictures

Projection Described

The scene was then changed to the theater, where the reproduction terrupted by the markings of the sound track on the film and then which changes the light impulses frequency impulses are then amplified about ninety million times by a series of high-gain amplifiers.

Several dynamic speaker units with huge air column horns are used to transform the feeble electric impulses into the crashing toror's mouths.

Professor McCormack then filled in Show Firebrick Film At A.S.M.E. Meeting

The experiences that were spoken of iron and steel production and coming in from pipe lines that main virtue of construction by of during this meeting caused Pro- one of the factors which makes the originate in Texas and Oklahoma. fessor McCormack to reminisce manufacture of modern heat temabout some accidents that had pered alloys possible was seen on crude oil enters the plant, the fire arcs glowed, throughout the entire happened to some of his own ex- a film shown before the A. S. M. E. protects started their climb over picture not a sound or snap could "Steam," will be afforded members Shows Detail

shown in considerable detail and ture. covered the whole business from claypit to storage warehouse from the press to the candle de-members of the committee say that through several different types of firebrick, these being made in many shapes and varieties to conform to the contour of the shell in the many styles of furnaces which are used by the industries.

Complete views of the kilns were shown in cross section with the circulation of the hot air indicated by arrows which made the function of the whole system very easy to follow.

In the first third of the tunnel kiln there is the pre-heating zone in which the brick is gradually brought up to a temperature somewhat below that of the next zone, the burning zone. In that zone Only eight men are enrolled in the temperature is about the same exposure to the air with a subse-

> The film was shown through the Company of Pennsylvania.

Glee Club Asked To Tour Europe

John Walker, president of the Glee Club, has received a communication from the University of Michigan Glee Club that should be of much interest to every member of the club. This ambitious glee club, of U. of M., is now at work on a European tour for next summer and invites the ARMOUR Glee Club to come along.

Called "Golden Days"

"Golden Days" has been chosen as a name for the tour which will Patla, C. E. '33, is leading by 25 sail from New York, July third, aboard the S.S. Republic of the United States Lines. Nearly five weeks will be spent in Europe visiting places famous in history and literature: London (2 days), Windsor, the Shakespeare country; The Hague, Amsterdam, The Isle of men by 58 points. Marken, Cologne, up the Rhine to two most prevalent types of films, the varying area and varying denstrated by the varying denstrat Motor Tour to Interlaken, Montreaux and the Castle of Chillon, thirty Armour men taking them films, and after they have both by the Simplon Tunnel to Milan, there were twenty civils, four elec- been developed they are transferred Venice, Florence, Rome (2 days), Building," was the title of the illus-Monte Carlo, Paris (4 days), Verend at New York on August 24th.

The group plans to rehearse on board ship on the way over. Two or three thousand dollars are expected as proceeds from European concerts and this is to be divided equally among the members to help fifty Civils. defray the cost of the trip which is \$585. All those interested should dress, gave a brief summary of see John Walker of the Glee Club

Fire Protects Inspect Oil Refining Process

Last Thursday the Junior Fire rents of sound which may be heard Protects went on an inspection trip its frame. perfectly throughout the largest to the Refinery of the Standard Oil appear to be coming from the act- and is evaluated at more than one hundred million dollars.

When the group arrived at the plant, they went directly to the dred and twenty feet. main office where they were provided with a junior Engineer, who tive proof of the Professor's asseracted as a guide. They started the An important cog in the machine long trip by watching the crude oil

From the control room, where last Friday morning. This refers, steps and across fields by going to be heard. to the modern firebrick, the result the room where wax was being reof years spent in the mixing and moved from the crude oil. It was tempering of clays, which make up noted that the Fuller's Earth, that a firebrick that can resist the enor- was being used here in a filter mous temperatures developed in press, could be renewed by heating so as to be used ten or eleven times. The wax is removed by crystallizing The process of manufacture was it out of the oil at a low tempera-

(Continued on page 3)

Calendar

Tuesday, March 10 5:00 P.M.—Orchestra Rehearsal. 7:30 P. M.—Track Meet—Armour vs. Sears Roebuck Y. M. C. A. at Bartlett Gym. 7:30 P. M.—Swimming Meet —

Loyola vs. Armour at University of Chicago. Wednesday, March 11 5:00 P. M.—Freshman Orchestra Practice.

Thursday, March 12

5:00 P. M.—Glee Club Rehearsal. Friday, March 13 10:30 A. M.—A. R. A. Meeting, Electrical Lecture

Room. 5:00 P.M.—Freshmen Orchestra Practice.

Saturday, Warch 14 Track-Armour's Relay Teams at 14th An-Champaign, Illinois.

Wesleyan College vs. Armour at University of Chicago.

Rifle Club Certain To Win State Meet

Almost certain of winning the Illinois state rifle championship the Armour squad is now in the last week of the six weeks of competition. At present the squad is 221 points ahead of the second place team, the Slifer Legion Post aggregation. The McHenry (Ill.) club dropped to third place last week after holding second place for four weeks of the meet.

In the individual standings S. J. points. Last week the Tech squad met and defeated a team composed of the best shots of the other nine clubs in the Tribune meet. Morgan Park Military Academy was also a victim of the Armour marksmen during the past week, losing to our

In Steel Building

"Welding in The Carnegie Steel Genoa, along the Riviera to Nice, trated lecture, presented at a meeting of the W. S. E. by Professor sailles. Cherbourg. The tour will Heald of the Civil Engineering Department.

> The lecture, which depicted the construction of the first all "welded," steel frame building, was delivered at 10:30 last Friday, in room B, Mission, to an audience of about

The speaker in opening his adthe development of electric arc and gas welding connection with steel structures. He told of how, in 1930, a building of skyscraper design was constructed with gas and electric welding as the only medium of joining the various members of

Located in Cleveland

This structure, known as the Carnegie Building, was erected at screen in order that the sound may ers over fourteen hundred acres Cleveland, Ohio, by the Carnegie Steel Co. The building is four stories in height and covers a ground space of sixty by one hun-

> Moving pictures served as posi tion that aside from the greater Motion Pictures On safety factor to the workers, the welding was its lack of noise, for no matter how fiercely the electric

Inter-Honorary Men Plan Dance On May 1

will be present at the Inter-Honor- views of the various units, which ary Dance to be held on May first. will follow later, may be better un-The men then followed the wax Richard Eddy and Fred Attwood, derstood. this date is definite although the latest superheaters and economizplace and the entertainment have ers, and many similar items of not been decided on yet. The fol- equipment will show these compolowing organizations are partici- nents both in operation and under pating to make this event a suc-construction. cess:

Chi Epsilon Eta Kappa Nu Honor "A" Phi Lambda Upsilon Pi Nu Epsilon Pi Tau Sigma Salamander Sphinx. Tau Beta Pi

Outdoor Cycle Photos

Cycle pictures were taken in the station is being operated by a gymnasium and in the Assembly school or college. The 9 indicates Hall.

ing of the outdoor pictures. A plat- | States. form will be erected at one end of each group.

FOUR CANDIDATES FOR POSITION OF JUNIOR MARSHAL

Need Thirty Signatures to Place Name on Ballot

ELECTION THIS WEEK

The campaign for the election of Junior Marshal started last week with the circulation of petitions for nomination. J. B. Dirkers, F. P. E.; H. P. Richter, C. E.; R. F. Waindle, M. E., and H. W. Yount, F. P. E., are the men who at press time had almost the required thirty signatures for nomination. There are 168 members in the junior class. Duplicate signatures will be stricken from all petitions on which they appear. The election for Junior Marshal will probably be held this Thursday, though this is not defi-

Direct Junior Week

The Junior Marshal and the four assistant marshals who are appointed by him have direct control of the Junior Week activities. Plans for the annual Class Rush; setting of dates for the Interfraternity track meets and games; and arrangements for Open House Night are some of the many duties of these men. Junior Week is probably the most important college event of the year and the success depends greatly on the ingenuity of the marshal and his assistants.

Setting of the date for Junior Week automatically sets the date for the Junior Formal as the following Friday.

Overseer Class Rush

The freshman-sophomore class rush, the annual battle for class supremacy which takes place during this memorable week is overseered by the marshals in their resplendent jackets. Reports have it that the competition in the Interfraternity Pageant will be unusually stiff this year.

Steam To Be Viewed

An opportunity to view several reels of motion pictures, entitled of the A. S. M. E. next Friday, March 13.

Animated drawings will be used to explain the passage of water, steam, and gases through many standard types of steam power installations. These are to be pre-Most of the school intellectuals sented first in order that the actual

Pictures of modern boilers, the

The Babcock and Wilcox Co. have arranged these films.

Change Call Letters Of Tech Radio Station

Through the efforts of Professor Wilcox and the officers of the Armour Radio Association, the call letters of the Armour Amateur Station were changed from W9NV to Will Be Taken Soon wayw by the Federal Radio Commission.

Last Friday, March 6, the first The letter Y designates that the that it is located in the Ninth Fed-In about three weeks, A. H. Jens, eral radio district and the W is editor-in-chief of the 1931 Cycle, the international prefix carried by will arrange a schedule for the tak- all amateur stations in the United

The members of the A. R. A. WIII nual Illinois Relays, Ogden Field, and photographs of hold their bi-monthly meeting Frieach class will be taken separately. day in the Electrical Lecture room For this purpose, each class will be on the second floor of the main divided at random into four sec- building at 10:30 o'clock. All men tions, and pictures will be taken of interested are cordially invited to attend.